MILLERE, R.K. (Riga)

Dynamics of the physical development of schoolchildren in Riga.

Sov. 2drav. 21 no.5:40-43 62. (MIRA 15:5)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny (zav. - dotsent F.F.Grigorash) Rizhskogo meditsinskogo instituta (dir. - prof. V.A.Kal'berg).

(GROWTH) (RIGA--SCHOOLCHILDREN)

BELORUTSKIY, A.G., mayor; GRIGOR'YEV, A.Ya., podpolkovnik; MILLEROY, Y.I.,
mayor; UL'YANOV, I.F., gvardii polkovnik sapasa; KHRENIKOV, A.A.,
podpolkovnik; TSABINOV, S.M., podpolkovnik; KONINSKIY, V.A., obshchiy
red.; RAYEVSKIY, L.A., red.; UMANSKIY, P.A., tekhn.red.

[Tashkent Red Banner and Order of the Red Star Military Academy named for V.I.Lenin; a brief historical account] Tashkentskoye krasnosnamennoye i ordena Krasnoy Zvesdy voyennoye uchilishche imeni V.I.Lenina. Tashkent, Gos.isd-vo Usbekskoi SSR, 1958.

280 p. (MIRA 12:3)

(Tashkent--Military education)

SIMALJAK, J.; MILLEROVA, A.; JABIONSKY, I.; IASKOVA, O.; BUKACO/A, H.; BUZAS. M.

Effect of several common light sources on color perception. Cesk. ofth. 14 no.6:420-424 Dec 58.

1. Ustav pre lekarsku fyziku UK Bratislava, prednosta prof. MUDr. RNDr. Z. Krisan.

(COLOR VISION

eff. of various light sources on color perception (CE))
(ILLUMINATION

same)

MILLEROWA, Damita

A case of infectious mononucleosis in infant with associated septicemia. Pediat.polska 35 no.1:84-88 Ja '60.

1. Z I Kliniki Pediatrycznej P.A.M. w Szczecinie. Kierownik: doc.dr.med. J. Starkiewiczowa.

(INFECTICUS MONONUCLEOSIS in inf.& child.)

(SEPTICEMIA in inf.& child.)

MILLEROWA, Danuta

Comparative studies on alkaline reserve in the blood and cerebrospinal fluid in acute diarrheas. Pediat.polska 35 no.10:1217-1222 0 '60.

1. Z I Kliniki Pediatrycznej P.A.M. w Szczecinie, Kierownik: doc. dr med. J.Starkiewiczowa.

(DIARRHEA metab)

(HYDROGEN IGE CONCENTRATION)

(CEREBROSPINAL FLUID chem)

STARKIEWICZOWA, Julia; MILLEROWA, Danuta

Role of kidneys in the pathogenesis of chronic dehydration in infants. Pediat pol 36 no.12:1249-1262 D '61.

1. Z I Kliniki Pediatrycznej PAM w Szczecinie Kierownik: doc. dr med. J. Starkiewiczowa i z Centralnego Laboratorium Panstwowego Szczecinie Kierownik: lek H. Sliwinska. (DEHYDRATION in inf & child) (KIDNEY physiol)

MILLEROWA, Danuta

Role of the adrenal cortex in diarrheas in infants. Roczn. pom. akad. med. Swiierczewski. \$:383-414 '62.

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej Kierownik: prof. dr med. Julia Starkiewiczowa.

(DIARRHEA INFANTILE) (L7 KETESTEROIDS)

(ADRENAL CORTEX FUNCTION TESTS)

MILLEROWA, Danuta

Variability of anatomical and histological structure and of the physiological structure of the adrenal cortex in newborn infants. Pol. tyg. lek. 17 no.31:1235-1237 30 Jl '62.

1. Z I Kliniki Pediatrycznej Pom. AM w Szczecinie; kierownik Kliniki: prof. dr med. J. Starkiewiczowa.

(ADRENAL CORTEX)

*

MILLEROWA, Danuta; PRONICKA, Ewa

Functional diabetes insipidus of renal origin in acute diarrhea in infants. Pediat. pol. 39 no.1:25-31 Ja 64

1. Z I Kliniki Pediatrycznej PAM w Szczecinie; Kierownik: prof. dr. med. J.Starkiewiczowa.

MILLEROWA, Denuta

Studies on the level of 17-OHCS in the urine following ACTH stimulation in infant toxicosis. Pediat. Pol. 39 no.2:145-152 F*64.

1. Z I Kliniki Pediatrycznej PAM w Szczecirie (kierownik: prof.dr.med. J.Starkiewiczowa) i z Centralnego Laboratorium PSK nr.1 (kierownik: lek.med. H.Sliwinska).

MILLEROWA, Danuta; PRONICKA, Ewa; DOROZYNSKA, Barbara

The effect of vitamin D 3 on the level of serum calcium in rickets and tetany of rachitic etiology. Pediat. Pol. 40 no.3:

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. J. Starkiewiczowa) i z. Centralnego Laboratorium PSK nr.l w Szczecinie (Kierownik:

MILLEROWA, R.

"Piece wages in the fish industry" p. 7 (GOSPODARKA RYBNA, Vol. 5, No. 3, Mar. 1953 Warszawa, Poland)

SO: Monthly list of East European Accessions, L.C., Vol. 3, No. 4, April 1954

MILLERS, A.

Biological effect of radioactive phosphorus in presowing treatment of oats. p. 105.

LATVIJAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

MILLERS, A.

Effect of radioactivity on plants when using various nitrogen fertilizers. Vestil Latv ak no.7:85-90 162,

l. Latvijas PSR Zinatnu akademija, Biologijas instituts.

CUTMANIS, Krists; CUTMANE, Laima; PETERSONS, E., kand. sel'khoz.
nauk, retsenzent; MILLERS, A., st. nauchn. sotr.,
retsenzent; SHKLENNIKS, Ch., red.; PILADZE, Z., tekhn.
red.

[Significance and use of vitamins in vegetable growing]
Vitaminu nozime un pielietosana darzenu audzesana. Riga,
Latvijas PSR Zinatnu akademijas izd-va, 1962. 54 p.
(MIRA 17:2)

1. Biologicheskiy institut Akademii nauk Latviyskoy SSR (for Petersons, Millers).

MILLERS, Arnolds; SKLENNIKS, C., red.

[Radioactive fallout and its biological significance]
Radioaktivie nosedumi un to biologiska loma. Riga,
Latvijas PSR Zinatnu akad. izd-ba, 1963. 55 p.
[In Latvian] (MIRA 17:6)

MILLERS, T. (Riga); KARLSONS, K. (Riga); VAIVADS, A. (Riga)

Usefulness of domestic dolomite quicklime for production of lime-sand blocks. III. Carbonization of solutions of Ieriki and Ape dolomite quicklime. Vestis Latv ak no.10:97-106 *59. (EEAI 9:10)

Latvijas PSR Zinatnu akademija, Kimijas instituts (Latvia--Dolomite) (Latvia--Lime)

MILLER, T. [Millers, T.]; KARLSON, K. [Karlsons, K.]; VAYVAD, A. [Vaivads, A.]

Frost resistance of carbonated sand-lime products with unslaked dolomitic lime [with summary in English]. Vestis Latv ak no.12: 35-40 '61.

1. Akademiya nauk Latviyskoy SSR, Institut khimii

ARTEM'YEV, Ye.A.; VOLCHENKO, V.V.; NOZDRINA, M.S.; BRUNNER, Ya.N., dotsent; MILLERUK, G.Ya.

Readers' letters. Zashch. rast. ot vred. i bol. 8 no.2:14-15 F '63. (MIRA 16:7)

- 1. Agronom po zashchite rasteniy Krasnosel'skogo rayona Kostromskoy oblasti (for Artem'yev). 2. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy ot vrediteley i bolezney" (for Volchenko).
- 3. Agronom po zashchite rasteniy Khar'kovskogo rayona (for Nozdrina).
- 4. Poltavskiy sel'skokhozyaystvennyy institut (for Brunner).
- 5. Zamestitel' predsedatelya Soveta rayonnogo otdeleniya Obshchestva okhrany prirody, Cherkasskaya obl. (for Milleruk).

 (Plants, Protection of)

8/0000/63/003/000/0381/0388

AUTHOR: Milleryan, T. Ye., Pol'skiy, N.I., Shchegolev, G.M.

TITLE: Unidimensional idealization and its application to the finding of optimal operational modes of magnetogasdynamic apparatus

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike. 3d, Riga, 1962. Voprosy* magnitnoy gidrodinamiki (Problems in magnetic hydrodynamics); doklady* soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 381-388

TOPIC TAGS: magnetogasdynamics, gas dynamics, hydromagnetics, idealization, unidimensional idealization

ABSTRACT: The authors call attention to the fact that, despite the large number of published works dealing with the use of unidimensional schemes in the study of magnetogasdynamic flows in channels, there is a frequent failure to bear in mind the assumptions on the basis of which the equations of the unidimensional system were derived. As a result, there is no indication of the real flows, to the study of which the results of the investigation of the obtained equations are applicable. The present article contains some comments on stationary flows in connection with this problem. The authors note that the equations of unidimensional magnetogasdynamics are normally derived from the full system card. 1/5

of equations with the following additional assumptions: 1. the volumetric electromagnetic force F acts only in the direction of the flow (for example, along the x axis); 2. all components of electromagnetic values B=H,E,j depend only on x; 3. The magnetic field preserves its direction along the flow (for example, along the z axis), while the electrical field E and the density vector of the current j are directed along the y axis; that is, vectors u, B and E are mutually perpendicular and the flow occurs in crossed fields. From assumptions 1 and 2 it follows that in the case of a force F, no' equal to zero, vector B must have only two components B_y and B_z . In the case of a sufficiently large magnetic Reynolds number Re_m it also follows from assumptions 1 and 2 that the ratio B_y : B_z remains unchanged along the flow. If the flow of a nonviscous gas satisfies conditions 1-3, the motion and induction equations take on the following form:

 $\rho uu' + p' = -\frac{1}{2u} (B')'; \quad \mu f = B' = \mu \sigma (uB - E). \tag{1}$

Initial and boundary conditions are discussed. The authors note that in some investigations a unidimensional system is used on the supposition that the magnetic Reynolds

___2/5

number is small, while the induction of the applied magnetic field is a given function of B(x). They show, however, that these two postulates are incompatible in a unidimensional approximation. From the general equation of magnetogasdynamics, with assumption 1 - 3, it follows that E = const. along the channel; if, in a rectangular channel, the electrodes, arranged at a distance y₀, are ideal conductors and closed through the external net, there will arise on them a potential difference U = Ey₀. The following question is posed and discussed in the paper: In which of the two cases - U = const. or E = const. - does the unidimensional system more accurately describe the actual behavior of the flow. In the authors' view, properly organized experimentation would permit the development of a unidimensional system of magnetogasdynamic diffusor flows, much in the same manner as this has already been done for a case in which no magnetic field is present. The solution of the equation system of the unidimensional approximation is also considered. It is noted that with the variational problem formulated one way or the other, a system of ordinary differential equations can be obtained, the solution of which will provide the unknown optimum. In the opinion of the authors, the most important point is the selection of premises which render possible the application of the unidimensional system. For an elucidation of this question, they discuss the simplest problem of finding an isothermic generator of maximum power on the condition that the flow velocity along the channel is constant. In accordance with their previous development of the subject, the authors assume that the induction of the magnetic field B remains unchanged along the channel, Card

: 1

with the channel having a constant width z between the poles of the magnet. An analysis is made of the power of the same generator on the assumption that $E = \frac{U}{y} = \text{const.}$ In the

examples given in the article, it is also possible to consider the dependence of the conductivity on the pressure. In each case, this has no effect on the qualitative character of the relations obtained. The effect of friction is also discussed for the case of U = const. Having determined the optimal operational regimes of a magnetogasdynamic apparatus on the assumption that T and u are constant, the authors point out that all the considerations presented in the article can also be extended to cases in which the constancy of T and u is not assumed. The proper formulation of the variational problem makes it possible to reduce the task of finding the optimal mode to the solution of a system of ordinary, differential equations. At the present state of the computer art, the solution of such a system presents no particular difficulties. The authors emphasize that the solution of such prospection of the particular difficulty justified. The examples considered the unidimensional idealization is based, are sufficiently justified. The examples considered in the article indicate that the effect of the particular assumptions on the characters of

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the final solution is extremely significant. A determination of the degree of justification of specific hypotheses in a unidimensional system is impossible within the framework of the system itself. Here what is required is either experimentation or a sufficiently thorough theoretical analysis of plane and three-dimensional flows. Orig. art. has: 3 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 04Dec63

ENCL: 00

SUB CODE: ME

NO REF SOV: 003

OTHER: 002

Card 5/5

L-57879-65 EWP(m) = PF(n) - 2/EWF(1)/EWA(d) Pd-1/Pu-h IJP(c) WW

ACCESSION NR: AP5014178

UR/0382/65/000/001/0067/0072

533.95 : 538.4 : 621.362

AUTHOR: Zelichenko, Ye. N.; Milleryan, T. Ye.; Pol'skiy, N. I.

TITLE: Optimum regimes of magnitogasdynamic flows in channels with Hall effect

SOURCE: Magnitnaya gidrodinamika, no. 1, 1965, 67-72

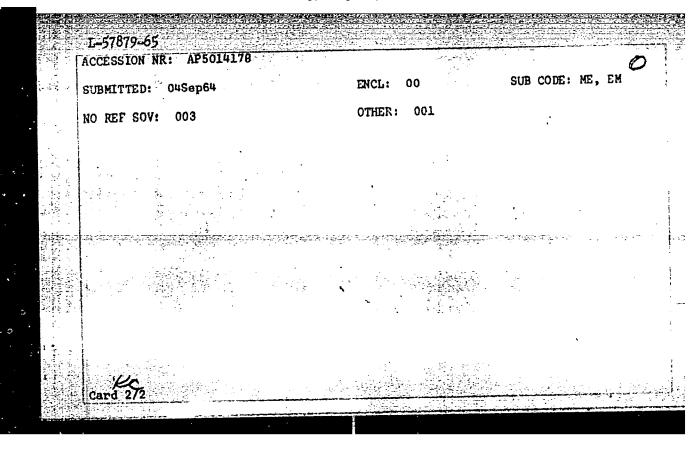
TOPIC TAGS: magnetohydrodynamics, MHD generator, Hall effect, conducting gas

ABSTRACT: The delivery of maximum power by the electrodes of a system consisting of conducting gas is discussed. Retaining the Hall effect, several physically justified simplifications are made to permit analytic treatment. The problem is solved by finding a unique extremum value of the generated power for a fixed exit pressure the method is a generalization of one used by N. I. Polisky (Teplofizika Brackikh Temperatur, 1964, 2, 2, 238). The parameter equation is derived giving the conditions that do not permit the existence of the generator regime. Both cases with sectioned and continuous electrodes are considered and the one-dimensional approxi-

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sectioned and continuous electrodes are considered and the one-dimensional approximation is evaluated for each situation. The case where Hall effect is significant is shown to be the so-called Hall short-circuiting as employed with sectioned electrodes. Orig. 'art. has: 10 formulas, 5 figures.

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MILLES, Yo.B., insh.; AFOHSKAYA, N.S., kand. tekhn. nauk; ZURABYAH, K.M., kand. tekhn. nauk

Characteristics of various methods for dehairing and liming of raw hides in the manufacture of hard leather. Isv. vys. ucheb. sav.; tekh. leg. prom. no.4:34-38 *59. (MIRA 13:2)

1. Vsesoyusnyy sacchnyy institut tekstil'noy i legkoy promyshlennosti i TSentral'nyy nauchno-issledovatel'skiy institut koshevenno-obuvnoy promyshlennosti. Rekomendovana kafedroy tekhnologii obuvi, koshi i iskusstvennoy koshi Vsesoyusnogo sacchnogo instituta tekstil'noy i legkoy promyshlennosti.

(Leather manufacture)

- 1. MILLETSKIY, YA.
- 2. USSR (600)
- 4. Physicians
- 7. Meeting. Ogonek, 30, No. 50, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassifie

BAUER, Karoly, okleveles olajmernok, tudomanyos munkatara; halling, dynin, okleveles vegyeszmernok, tudomanyos munkatara; halling, olden, okleveles vegyeszmernok, tudomanyos munkatara.

Preparation and application of glass filters, dispurages and sintered glass bodies made of nodular glass powder. Bany lap 07 no.7:496-499

Jl 164.

1. Oil Production Research Laboratory of the Hungarian actions of Sciences, Miskolo-Egyetemvaros.

MILLEY, Gyula, okleveles vegyezmernok

Tensionetric investigation of the layer waters of petroleum reservoirs. Bany lap 95 no.6:412-421 Je '62.

l. Tudomanyos kutato, Magyar Tudomanyos Akademia Olajbanyaszati Kutato Laboratoriuma, Miskolc.

MILLEY, Gyula, okleveles vegyeszmernok, tudomanyos munkatars; WAGNER, Otto okleveles vegyeszmernok, tudomanyos munkatars.

Flowmeter for indicating very low rates of discharge of gases. Bany lap 97 no.3:203-211 Mr '64.

1. Oil Production Research Laboratory, Hungarian Academy of Sciences Miskolc.

MILLEY, Gyulane, oklaveles vegyesomernok, tudomeny a munkaters

Specific surface seasurement of consolidated porous substances. Bany lap 97 no.12:847-854 D 164.

1. 011 Production Research Laboratory of the Hungarian Academy of Sciences, Miskolc.

MILLEY, Vilmos

Mounting panel. Epuletgepeszet 9 no.4:134-137 '60.

MAKAI, Janos; KOVACS, Lajos, femernok; MILLEY, Vilmos, fomernok

Tasks before the fitting industry of domestic engineering as reflected in the decisions by the 8th Congress of the Hungarian Socialist Workers Party. Epuletgepeszet 12 no.1/2:1-5 Mr '63.

1. Szereloipari Igazgatosag vezetoje (for Makai). 2. Muszaki Fejlesztesi Foosztaly (for Kovacs). 3. Oktatasi Foosztaly (for Milley).

IZMAIL'SKIY, V.A.; MILLIARESI, Ye.Ye.

Microstructure and spectra of benzylideneaniline and azobensene derivatives and their salts. Dokl. AN SSSR 141 no.4:857-860 D 161. (MIRA 14:11)

1. Laboratoriya khimii krasiteley i problemy tavetnosti pri Moskovskom pedagogicheskom institute im. V.I. Lenima. Predstavleno akademikom B.A. Kasanskim. (Aniline-Spectra) (Asobenzene-Spectra)

MILLIARESI, Ye.Ye.; IZMAIL'SKIY, V.A.

p-Dimethylaminossobensene salts with trifluoroacetic acid in dichloroethane. Zhur.ob.khim. 32 no.10:3451-3452 0 '62. (MIRA 15:11)

(Aniline) (Acetic acid)

MILLIARESI, Ye.Ye.; IZMAIL'SKIY, V.A.

Spectra of the derivatives of 2,4-dinitroaniline. Presence of quasiautonomous cochromophore systems. Dokl. AN SSSR 146 no.5:1094-1097 0 162. (MIRA 15:10)

1. Laborayotiya khimii krasiteley i problemy tavetnosti pri Moskovskom pedagogicheskom institut im. Lamina i Institut organicheskikh poluprodiffico i krasiteley. Prestavleno akademikom B.A. Kasanda (Anilia Spectra)

MILLIARESI, To.; IZMAIL!SKIY, V. A.; LARINA, M. K.

Effect of M-methylation on the spectrum of derivatives of 2,4-dinitrodiphenylamine. Zhur. VKHO 8 no.2:238-239 '63. (FIRA 16:4)

1. Moskovskiy pedagogicheskiy institut imeni V. I. Lenina.

(Diphenylamine-Spectra) (Methylation)

MILLIARESI, Ye.Ye.; IZMAIL'SKIY, V.A.

Theory of the origin of the absorption spectra of 2,4-dinitroaniline and 2,4-dinitrodiphenylamine. Experimental confirmation of the presence of quasiautonomou. chromophore systems. Zhur. ob. khim. 35 no.5:776-785 My '65. (MIRA 18:6)

1. Laboratoriya khimii krasiteley i problemy tsvetnosti pri Moskovskom pedagogicheskom institute imeni Lenina.

L 07157-67 ENP(j)/ENT(m)/ENP(w) RM/JN SOURCE CODE: UR/0079/66/036/006/1034/1038 3.2 3.2 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3
AUTHOR: Milliaresi, Ye. Ye. ORG: Moscow Pedagogical Institute im. V. I. Lenin (Moskovskiy pedagogicheskiy insti-
tut) TITLE: Absorption spectra of 2,4,6-trinitroaniline and 2,4,6-trin
TOPIC TAGS: aniline, diphenylamine, aromatic nitro compound, absorption spectral the ab- TOPIC TAGS: aniline, diphenylamine, aromatic nitro compound, absorption spectral the ab- ABSTRACT: An attempt has been made to determine the origin of the bands in the ab- Sorption spectra of 2,4,6-trinitroaniline (TNA), N,N-dialkyl-TNA, and N-phenyl-TNA
sorption spectra of 2,4,6-trintrodiphenylamine). As in the case of 2,4-drintrodiphenylamine). As in the case of 2,4-drintrodiphenylamine). As in the case of 2,4-drintrodiphenylamine). As in the case of 2,4-drintrodiphenylamine, the absorption bands of a single π-electron system are absent in the absorption phenylamine, the absorption bands as the hydrogen bond between the sorption spectrum showed that dialkylation of TNA eliminates the hydrogen bond between the spectrum showed that dialkylation of TNA eliminates the hydrogen bond between the spectrum showed that dialkylation of TNA eliminates the hydrogen bond between the spectrum showed that dialkylation of TNA eliminates in the intensity of the corresponding alkylation of TNA decreases the probability of electron transfer in the p-nitrodial-anino group and the two nitro groups. Because it reinforces the steric factors, dispersion of TNA decreases the probability of electron transfer in the p-nitrodial-anino group and the two nitro groups. Because it reinforces the steric factors, dispersion of TNA in the absorption bands can be established only by kylaniline system, as indicated by a decrease in the intensity of the corresponding band. It is shown that the origin of the absorption bands can be established only by kylaniline systems that the origin of the absorption bands can be established only by kylaniline the presence of three quasi-autonomic chromophoric; systems in the molecule band. It is shown that the origin of the absorption bands can be established only by kylaniline the presence of three quasi-autonomic chromophoric; systems in the molecule band. It is shown that the origin of the absorption bands can be established only by kylaniline systems and one p-nitrodial-anintrodial-an
viz., two o-nitroaniline systems upc: 543.423547.551.2
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NILLICEVIC, B.

Supension strength. p. 251, Vol 20, no. 4, 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

MILLICEVIC, B; IVEKOVIC, H.

Saturated ternary systems. I. Some physicochemical properties of solutions of 1, 1, 1-trichloro-2, 2-bis-(p-chlorophenyl)-ethane and of gamma-1, 2, 3, 4, 5, 6-hexachlorocyclohexane in the systems of wateracetons and water-1, 4-dioxane. II. Equation of solubility in a mixture of two solvents. In English. p. 83.

CROATICA CHEMICA ACTA. (Hrvatsko Kemijsko drustvo, Sveuciliste u Zagrebu i Hrvatsko prirodoslovno drustvo) Zagreb, Yugoslavia. Vol. 31, no. 2, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 2, 1960. Uncl.

MILLING, Ye.A.

Experience with work in the interregional orthopedic clinic.
Ortop. travm. i protez. 21 no. 10:49-53 '60. (MIRA 14:1)
(ORTHOPEDIA)

MILLION, A.

TECHNOLOGY

Periodicals: METALURGIA SI CONSTRUCTIA DE MASINI. Vol. 10, no. 5, May 1958

MILLION, A. Automatic welding under the flux of bottles containing liquefied petroleum gas. p. 1/10

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

L 39758-65 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(b)/EWA(c) Pf-4 ACCESSION NR: AP4047010 JD/HM S/0135/64/000/010/0001/0006 23

AUTHORS: Petrov. G.L. (Doctor of technical sciences); Million, A. (Candidate of technical sciences)

TITLE: The processes of hydrogen distribution in weld joints of mild and low-alloy steels

SOURCE: Svarochnoye proisvodstvo, no. 10, 1964, 1-6

TOFIC TAGS: steel, low alloy steel, weld joint, hydrogen distribution, permeability, weld affected zone, austenitic structure, pearritic ferritic structure

ABSTRACT: The authors developed a method of bringing about a quantitative distribution of hydrogen in weld joints at different post-cooling periods as well as its complete removal from the weld joints of mild and low-alloy steels having a different hardenability. The method is applicable when the hydrogen permeability is identical in all weld-affected zones where hydrogen diffusion occurs such as in steels that do not harden during welding and in specimens with an electrode for the production of low-carbon non-hardening welds. The Cord 1/3

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quantitative character of the process of hydrogen distribution was found to be independent of the type of the ferritic-pearlitic electrode cover and of the amount of hydrogen that passes into the joint during welding. With very high hydrogen concentration, welds pro-

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temperature, when austenitic weigs do not displace mydrogen at all.

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L 39758-65

ACCESSION NR: AP4047010

The employment of wet electrodes causes the displacement of hydrogen in high concentrations. In ferritic-pearlitic welds the hydrogen concentration in the weld-affected zone is initially heightened at

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ert has: 10 % gures and 4 tables

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina

(Leningrad Polytechnic Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NR REF SOV: 007

OTHER: 005

Card 3/3

ACCESSION NR: AP5016575

AUTHOR: Petrow, G. L. (Professor, Doctor); Million, A. (Graduate engineer)

TITLE: A contribution to the understanding of the effects of hydrogen diffusion on the formation of cracks in welded joints

SOURCE: Revue Roumaine des sciences techniques. Serie de metallurgie, v. 10, no. 1, 1965, 127-150

TOPIC TAGS: steel welding, weld crack, hydrogen crack, weld hydrogen concentration, hydrogen diffusion, weld quality, hydrogen embrittlement, alloy steel welding

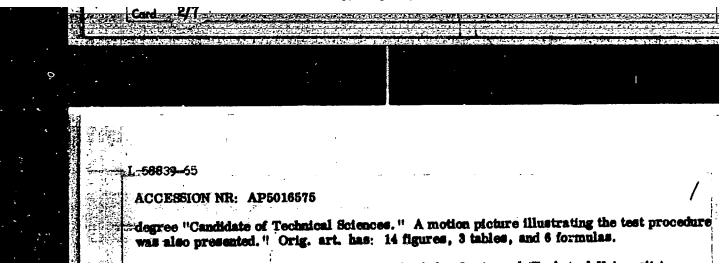
ARSTRACT: The mechanism of the effect of hydrogen on the formation of cracks in welder joints was investigated. A method was developed for studying the distribution mechanism of diffusible hydrogen in steel welds during and following the welding operation. The method is a refined version of that described by N. Christensen, K. Gjermundsen, and R. Rose (British Welding Journal, v. 8, no. 6, 1958, p. 273) and M. Dadian (Soudage et Techniques Counsess, v. 16, no. 3-4, 1962, p. 131). Hardenshie and non-hardenshie furritio-partitio and austratitio steels were investigated by this technique. The findings are summarized in Figures 1 and 2 of the Enclosure. With the sid of these diagrams, it is possible to establish the numerical value of the local hydrogen concentration for any Cord

L*58839-65.

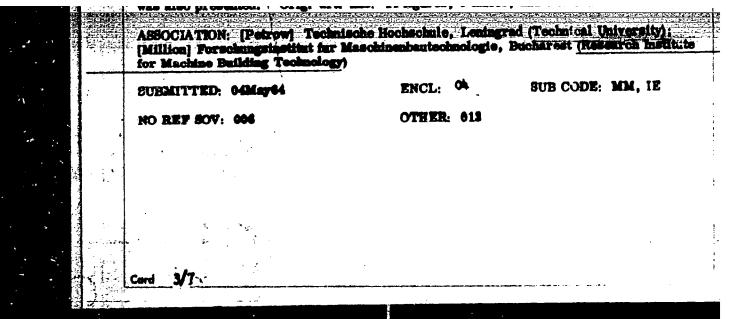
ACCESSION NR: APSO16675

portion of the welded joint as a function of time elspsed after the post-welding quenching if the height of the welding bend (h) and the concentration of hydrogen in the welding stock (C_0) is known. If, for example, $C_0 = 12.5$ co/100 g and the 0- C_0 distance (in Figures 1 and 2 of the Enclosure) is 10 mm, each 0.8 mm (i. e. , 10/12.5) corresponds to a local concentration, C_0 of 1 co/100 g. The time vs. concentration curve is of special significance in the second second

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134310



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134310



PETROV, G.L.; MILLION, A.

Hydrogen distribution in welded joints in carbon and lowalloy steels. Trudy LPI no.245:32-41 '65. (MIRA 18:8)

KOURIM, Vaclav; RAIS, Jiri; MILLION, Borivoj

Exchange properties of complex cyanides. Pt. 1. Jaderna energie 10 no. 3:88 Mr 164.

1. Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez.

L 18492-66 EWT(m)/EWA(h).

ACC NRT # 196010235

SOURCE CODE: CZ/0038/65/000/005/0179/0179

AUTHOR: Kourim, Vaclay-Kourzhim, V.; Million, Borivoj

ORG: Institute for Nuclear Research, CSAV, Rez (Ustav jaderneho vyzkumu CSAV)

74

TITLE: Separation of cesium 137 from uranium fission products by means of zinc ferrocyanide

SOURCE: Jaderna energie, no. 5, 1965, 179

TOPIC TAGS: cesium, ion exchange, chromatography, fission product, uranium, cyanide, alkali metal, chemical separation

ABSTRACT: The group of complex cyanides forms inorganic ion exchangers with a high selectivity for ions of alkali metal elements. For reversible exchange of Cs ions zinc ferrocyanide is very suitable, because of its chemical and mechanical properties. Chromatographic separation of Cs from mixtures containing fission products of medium and long half-life is described, such as Sr, Ce, Ru, and the couple Zr-Nb. [JPRS]

SUB CODE: 07, 18 / SUBM DATE: none

Card 1/1 ye

UDC: 546.36.02: 621.039.59: 621.039.735

L 26046-66 EWA(d)/EWP(t) I ACC NR: AF5025475	SOURCE CODE: 02/0065/65/000/004/0361/0372
등 그 원생들은 [생기를 기다니다]	hera, Yaroslav; Million, BorivojMillion, Borzhivoy
ORG: Institute of Matal Prope	rties, CSAV, Brno (Ustav vlastnosti kovu CSAV) 64
TITLE: Autoradiographic study	of the diffusion of iron and chromium in Ni-Cr 8
SOURCE: Kovove materialy, no.	4, 1965, 361-372
alloy, chromium, radiography, EI 437 alloy ABSTRACT: The radioisotopes	r, radioisotope, iron, heat resistant alloy, crystal structure, grain structure/VZU 60 alloy, Fe ⁵⁵ , Fe ⁵⁹ , and Cr ⁵¹ were used to study the fusion stant Czechoslovak alloy VZU 60 (C 0.05, Mn 0.15,
Si 0.3, Al 0.8, Cr 16.49, Ni 6 the Soviet alloy EI 437 (C 0.0	66.05, Fe 10.95, W 1.84, Mo 1.75, and Ti 1.3%) and B. Mn 0.4, Si 1.0, Al 0.8, Cr 20.0, Ni 71.32,
lit gamples were taken to dete	tion to the radiographic observations, the lit-par- ermine the effect of grain boundaries on the diffusi- low temperature and the effect of the dendritic stru
or re in the El 437 arroy at 1	104 fembergua and the ellect of the dentitiate para

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ACC NR: AF5025475

ture of the VZU 60 alloy on the Fe diffusion at temperatures near solidus. The autoradiograms were taken by the contact method on Agfa-Laue X-ray film. The study showed that the regions having a high rate of diffusion were formed near the grain boundaries in the multicomponent alloy at temperatures near solidus. A simple model for expressing the dependence of the concentration of a diffusing trace element [C(x, t)] on the time (t) and the coordinate (x) was offered by assuming that, at the temperature near solidus, the diffusion along the grain boundaries is independent of the diffusion in the grain volume. The equation, which was based on this model, led to results which were in agreement with the experimental data:

 $c(x, t) = \frac{S_1}{S} \frac{c_0}{\sqrt{\pi D_V t}} \exp\left(-\frac{x^2}{4D_V t}\right)$

where S_1 is the area in which the effect of the grain boundary is not present during diffusion, S is the total area of the sample, C_0 is an initial concentration of the diffusing trace element on the surface of the sample, and D_V is the volumetric diffusion. During the diffusion the dendritic structure had the same effect as the grain boundaries. The effect of the grain boundaries (or that of the dentritic structure) on diffusion was noticeably expressed provided the following condition was present: $\begin{array}{c}
\hline
\delta.D_V
\end{array}$

Card 2/3

where D _g is the diffusion coefficient in the region of elevated diffusion to this region. The ratio D _g :D _g increased with decreased Because δ was greater in the VZU 60 alloy than in the alloy EI 4371 the was present in the VZU 60 alloy at higher temperature than in the alloy Orig. art. has: 6 formulas, 6 fig. and 1 table.	la conditi
	y EI 437.
SUB CODE: 11,14/ SUBM DATE: O6Jan64/ CRIG REF: 901/ OTH REF: CO	y najakaya Karangan
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[# 하다는 경기 : # 하다 # 하는 것이 되는 것이 되었다. 그 나는 사람이 되지 않아 보고 있다. 그 나는 사람이 되었다. 그 나는 사람이 되었다면 하는데 되었다. 그 나는 사람이 되었다. 그 나는 사람이 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면	i

MILLION, Carol, ing.

The V.U.S. Soldering Institute in Bratislava. Metalurgia construs 14 no.5:466-470 My '62.

1. Ministerul Metalurgiei si Constructiilor de Masini.

ENT(3)/ENT(w)/ENT(v)/T/BAL(b)/ETT/ENT(x) ACC NR. SOURCE CODE: RU/0/27/65/010/002/0323/0331 AP6031545 AUTHOR: Cabelka, I. (Academician); Million, C. ORG: Welding Institute, Bratislava TITLE: Contributions to the understanding of the causes of slow fissuring in the transformation zone of welded joints of highly resistant steels SOURCE: Studii si cercetari de metalurgie, v. 10, no. 2, 1965, 323-331 TOPIC TAGS: carbon steel, welding technology ABSTRACT A report on a study of the formation of fissures in welded joints in carbon steels with 0.45 percent carton. The fissures are classified in terms of their place of appearance and their orientation, and the role of hydrogen in the appearance of different types of slow fissures is discussed. The authors emphasize that because of the differences among the various types of fissures it is not possible to suggest general measures to avoid the formation of all these types. Orig. art. has: 20 flgurus. [JPRS: 34,166] SUB CODE: 13 / SUBM DATE: none / ORIG REF: OO1 / SOV REF: OO1 OTH REF: Oll Card 1/1 af

MILLEROVA, Maria, inz.

Testing the refractory characteristics of insulation materials. Wiad elektrotechn 33 mo.10:298-300 0 '64.

1. Electrical Engineering Research Institute, Prague-Troja, Czechoslovakia.

PETROV, G.L.; MILLION, A.

Contributions to the study of hydrogen diffusion influence on fissure formation in welded joints. Studii cerc metalurgie 9 no.2:253-274 '64.

B-1 Physical and Chemical Biology. milliousva, M.J. USSR / General Biology. : Ref Zhur - Biol., No 2, 1958, No 4732 , Millionova, M.I., Andreeva, N.S. Abs Jour Author , Not given , Diffraction Picture of Collagen Inst , Biofizika, 1957, 2, No 1, 43-45 A description is given of a diffraction picture of an air Title dry collagen KTT by exposure on flat and cylindrical grad Orig Pub tings with Cu- and Mo-radiation, monochromatized by reflection from a monocrystal. Some of the data obtained do not agree with calculations from a contemporary model of colla-Abstract gen structure. , 1/1 Card

USSR/General Biology, Physical and Chemical Biology.

B-1

Abs Jour: Ref Zhur-Biol., No 20, 1958, 90257.

Millionova, M.I., Andreyeva, H.S.

The Structure of the Molecular Chain of Collagen. Luthor : Ths:

Orig Pub: Biofizika, 1957, 2, No 3, 294-303 (res. Eng.) Title

The authors report a method of analyzing K-ray diffraction Lbstract:

images of various proteins belonging to the collagen (I) type. Faving established the relationship of the peculiarities of tiese irages to the armo acid composition of the proteins under study, they reach the conclusion that the reason for the unique form of coagulation of polypeptide chains in some parts of the long molecule (I) which was established by the authors earlier, is the accumulation in those areas of residues of amino

: 1/2 Card

MYLLIONOVA, M.I.

70-4-4/16

AUTHORS: Andreyeva, N.S., Yesipova, N.G. and Millionova, M.I. On Peculiarities in the Structure of Collagen. (Ob osobennostyakh stroyeniya kollagena).

PERIODICAL: Kristallografiya, 1957, Vol.2, Nr 4, pp.470-474 (USSR). Outline account - fuller details in "Biofizika", Vol.2, Nos. 3, 4 and 5 (1957). The dependence of the quantity of ordered phase in different collagens on various factors was investigated to elucidate the principles conditioning the ABSTRACT: presence of specific chain configurations in separate parts of the molecules in the protein groups of collagen. A major factor was found to be the accumulation of iminoacids and glycine in separate parts of the molecular chain. Other aminoacids may be present to a smaller extent. Water stabi-lises the particular chain configuration being distributed in the ordered parts near the chain skeletons (3 A away) and linked by H bonds. Photographs were taken with Cu radiation monochromatised by reflection from pentaerithritol and the peak heights and integrated intensities of the rings at 2.9 and 11.5 A were measured. Specimens used were collagen RTT, procollagen prepared by Orekhovich's method, collagen from pike skin, collagen from cod skin and spongin. These were examined in the disordered state and photographs were also Card 1/2

70-4-4/16

On Peculiarities in the Structure of Collagen.

taken from wet oriented collagen RTT and from films of procollagen. A linear relation between the line intensity and the iminoacid content was found. The quantity of ordered phase was found to be proportional to the iminoacid content and to the glycine content less a constant term. Infrared absorption spectra were measured. There are 5 figures and 18 references, 4 of which are Slavic.

ASSOCIATION: Moscow State University im.M.V.Lomonosov. (Moskovskiy Gosudarstvennyy Universitet im. M.V.Lomonosova)

SUBMITTED: March 1, 1957.

AVAILABLE: Library of Congress.

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0011343100

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MILLIONOVA, M.I., ANDREYEVA, N.S.

Configuration model of the glycyl-1-proline chain. Biofizika
3 no.3:259-264 *58

1. Fizicheskiy fakulitet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova (for Millionova). 2. Institut biologicheskoy fiziki AN SSSR, Moskva (for Andreyeva). (COLLAGEN)

(COLLAGEN (GLYCINE) (PROLINE)

MILLIONOVA, M. I.; ANDREEVA, N. S.

"On the Configuration of Polypeptide Chains in Collagen"

a report presented at Symposium of the International Union of Crystallography Leningrad, 21-27 May 1959

MILLIONOVA, M. I., CHIRGADZE, I. N. and ANDREYEVA, N. S. (USSR)

"Structural Investigation of Coalagen Synthetic Model."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

ANDREYEVA, N.S.; DEBABOV, V.A.; MILLIONOVA, M.I.; SHIBNEV, V.A.; CHIRGADZE, Yu.N.

Synthetic polymer isomorphic with collagen. Biofizika 6 no. 2:244 '61. (MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Institut organicheskoy khimii AN SSSR, Moskva.

(POLYMERS) (COLLAGEN)

MILLIONOVA, M. I.; ANDREYEVA, N. S.

"The configuration of the polypeptide chain of the (gly-L-pro-L-hypro) polymer."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome, 9 Sep 63.

Inst of Biophysics, AS USSR, Moscow.

MILLIONOVA, M.I.; ANDREYEVA, N.S.; LEBEDEV, L.A.

Structure of polymers related to collagen. Report No.1: Characteristics of two polymer fractions (glycine-1-proline-1-hydroxy-proline)n. Biofizika 8 no.4:430-432 '63.

(MIRA 17:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

ANDREYEVA, N.S.; MILLIONOVA, M.I.

Structure of polymers related to collagen; structure of the low-molecular fraction of polytripoptide (glyoine-1-proline-1-hydroxyproline).

Kristallografiia 8 no.4:578-581 J1-Ag '63. (MIRA 16:9)

1. Institut biologicheskoy fiziki AN SSSR. (Tripoptides)



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Dispersion and temperature-dependence of a specific optical rotation for the polymer, glycyl-b-propyl-1-exyproline. Biofiziks 9 no.2:145-147 '64. (MIRA 17:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

MILLIONSHCHIKOV, A.

How to distribute profits of enterprise between a regional economic council and the budget. Fin. SSSR 23 no.7:49-52 J1 '62.

(MIRA 15:7)

(Taxation) (Profit)

MILLIONSHCHIKOV, Anatoliy Dmitriyevich; SOROKIN, Valentin Alekseyevich; KOZHUKH, Semen Arkad'yevich; TITOV, Konstantin Sergeyevich; FILIPPOVA, E., red.

[Deductions from profit] Otchisleniia ot pribyli. Izd.3., perer. i dop. Moskva, Izd-vo "Finansy," 1964. 182 p.
(MIRA 17:6)

MOKHOV, Boris Ivanovich; D'YACHENKO, Aleksandr Akimovich; FREYMAN, Tamara Iosifovna; MILLIONSHCHIKOV, A.D., otv. red.

[Payments and compensations from budget funds to organizations operating on a profit] Vyplaty i vozmeshcheniia khozorganam sredstv iz biudzheta. Moskva, Finansy, 1965. 86 p.
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MALLIONSHCHIKOV, M. D.

Decay of Homogeneous Isotropic Turbulence in a Viscious Incompressible rluid Doklady Akad. Nauk SSSR, Vol. 22, #5, 1939

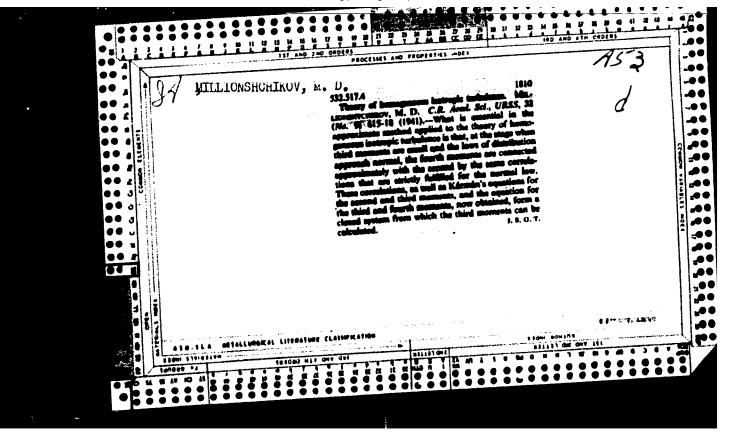
MILLIONSHCHIKU, M. D.

Decay of Turbulence in Wind Tunnels

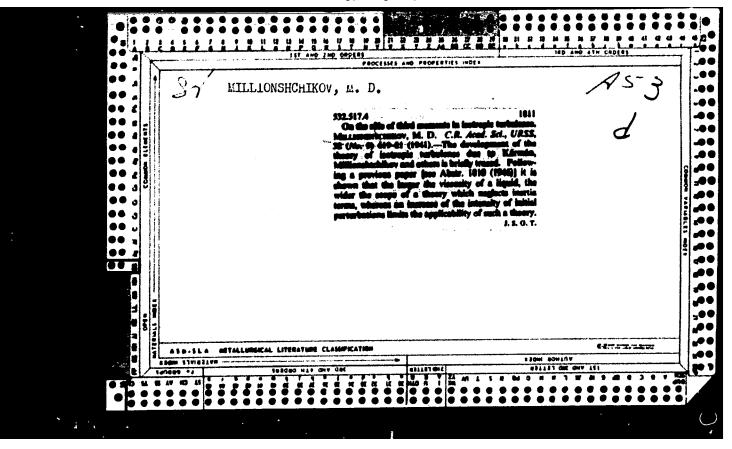
Doklady Akad. Nauk SSSR, vol. 22, #5, 1939

Ordshinokidse Aircraft Inst.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134310



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MILLIONSHCHIKOV, M. D., RYABINKOV, G. M., TREBIN, F. A. and KHRISTIANOVICH, S.A.

"Use of Ejectors in Gas-Collecting Networks." Izv. AN SSSR, No. 3(1946)

Central acrohydrodynamics Inst. in. Nye. Zhukovsking

MILLIONSHCHIKOV, M. D., SIMONOV, L. A., GAL'PERIN, V. G. and KHRISTIANOVICH, S. A.

"Applied Gas Dynamics" 1948

MILIIONSHCHIKOV, M.D.

29512

Dvizhyeiye Gaeirovannoy Nyefti v Poristoy Sryedye. Inzh. Sbornik (Akad, Nauk SSSR, In-t Myekhaniki), t. V. vyp. 2, 1949, s. 190-93.

So: Letopis' No. 40

KELER, V.R., otv. red.; MILLIONSHCHIKOV, M.D., akademik, red.;

BLOKHIN, N.N., red.; BLOKHINTSEV, D.I., red.; GNEDENKO,

B.V., akademik, red.; ZAYCHIKOV, V.N., red.; KELDYSH, M.V.,

akademik, red.; KIRILLIN, V.A., akademik, red.; KORTULOV,

V.V., red.; MONIN. Andrey Sergeyevich, prof., doktor fiz.—

matem. nauk, red. (1921); NESMEYANOV, A.N., akademik, red.;

PARIN, V.V., red.; REBINDER, P.A., akademik, red.; SEMENOV,

N.N., akademik, red.; FOK, V.A., akademik, red.; FRANTSOV,

G.P., akademik, red.; ENGEL GARDT, V.A., akademik, red.;

KREMNEVA, G., red.; BALASHOVA, A., red.; BERG,A.I., akademik, red.

[Science and mankind, 1964; simple and precise information about the principal developments in world science] Nauka i chelovechestvo, 1964.; dostupno i tochno o glavnom v mirovoi nauke. Moskva, Izd-vo "Znanie," 1964. 424 p.

(MIRA 18:1)

1. Deystvitel'nyy chlen AMN SSSR (for Blokhin, Parin) - Chlen-korrespondent AN SSSR (for Blokhintsev). 3. Akademiya nauk SSSR Ukr. STR (for Gnedenko).

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"The Most Rational Ways of Attaining General and Complete Disarmament."

report presented at the US-USSR Joint Disarmament Study Group Mtg, Cambridge, Mass., 7-20 Jun 64.

ARTSIMOVICH, L.A., akademik; DOLLEZHAL', N.A., akademik; KIRILLIN, V.A., akad.; MILLIONSHCHIKOV, M.D., akademik; POPKOV, V.I.; FRUMKIN, A.N., akademik

[Power engineering of the future; the second discussion] Energetika budushchego; beseda vtoraia. [By] L.A.
Artsimovich i dr. Moskva, Izd-vo "Znanie," 1964. 54 p.
(nc.oe v zhizni, nauke, tekhnike. Seriia IX: Fizika, matematika, astronomiia, no.11) (MIRA 17:6)

1. Chlen-korrespondent AN SSSR (for Popkov).

L 18316-65 EWG(j)/EWT(l)/EWP(e)/EWG(k)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EEC(b)-2/EWP(b)

Ps-6/Pr-4/Ps-4/Pu-4 IJP(c)/AFWL/SSD WW/AT/WH

ACCESSION NR: AP4049532 S/0089/64/017/005/0329/0335

AUTHOR: Millionshchikov, M. D.; Gverdtsiteli, I. G.; Abramov,

A. S.; GorTov, L. V.; Gubanov, Yu. D.; Yefremov, A. A.; Zhukov, V. F.;

Ivanov, V. Ye.; Kovy*rzin, V. K.; Koptelov, Ye. A.; Kosovskiy, V. G.;

Kukharkin, N. Ye.; Kucherov, R. Ya.; Laly*kin, S. P.; Merkin, V. I.;

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134310

TITLE: The "Romashka" high-temperature reactor-converter /9

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 329-335

TOPIC TAGS: nuclear power reactor, reactor feasibility study, research reactor, thermoelectric converter/Romashka

ABSTRACT: The authors briefly describe the construction, parameters, test results, and operating experience of the "Romashka" reactor-

Card 1/3

L 18316-65 ACCESSION NR: AP4049532

converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium dicarbide enriched to 90% U235. Graphite and beryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reflector and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer surface are 1770 and 1000C, respectively. The power ratings are 0.50-0.80 kW electric and 40 kW thermal, the maximum current (parallel connection) is 88 A, the neutron flux is 10^{13} neut/cm² sec in the center of the active zone and 7×10^{12} on its boundary. The reactor has . negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation. Tests on the equipment parameters are continuing, and the results are being analyzed for use in future designs. Orig. art. has: 8 figures and 1 formula.

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134310

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: NP
NO REF SOV: 000 OTHER: 000 ATD PRESS: 3155

ARTSIMOVICH, L.A., akademik; KELDYSH, M.V., akademik; KAPITSA, P.L., akademik; VUL, B.M.; VERESHCHAGIN, L.F.; PISTOL'KORS, A.A.; SHCHUKIN, A.N., akademik; SKOBEL'TSYN, D.V., akademik; ALEKSANDROV, A.P., akademik; AMBARTSUMYAN, V.A., akademik; ZEL'DOVICH, Ya.B.; SEMENOV, N.N., akademik; KOTEL'NIKOV, V.A., akademik; LIFSHITS, I.M.; VEKSIER, V.I., akademik; GINZBURG, V.I.; MILLIONSHCHIKOV, M.D., akademik

Some problems in the development of modern physics; discussion of the work of the Department of General and Applied Physics. Vest. AN SSSR 35 no.2:3-46 F '65. (MIRA 18:3)

1. Chleny-korrespondenty AN SSSR (for Vul, Vereshchagin, Pistol'kors, Lifshits, Ginzburg).

MILLIONSHCHIKOV, M.D., akademik; ARUTYUNOV, K.B.; NESMEYANOV, A.N., akademik; TAL'ROZE, V.L., doktor khim.nauk; PAVLENKO, V.A.; KOTEL'NIKOV, V.A., akademik; PETROV, B.N., akademik; NOVIKOV, I.I.; MANDEL'SHTAM, S.L., doktor fiz.-matem.nauk; VAYNSHTEYN, B.K.; SHUMILOVSKIY, N.N., akademik

Problems in the manufacture of scientific instruments. Vest.AN SSSR 35 no.6:3-20 Je 165. (MIRA 18:8)

1. Glavnyy konstruktor Spetsial nogo konstruktorskogo byuro analiticheskogo priborostroyeniya (for Pavlenko). 2. Chleny-korrespondenty SSSR (for Novikov, Vaynshteyn). 3. AN Kirgizskoy SSR (for Shumilovskiy).

L 26581-66 EWT(1)/EWP(e)/EWP(m)/EWT(m)/ETC(f)/EWG(m)/EWP(j)/T/EWP(1)/ETC(m)-6

ACC NR. AF6008762 IJP(c) DS/WW/RO/JK/SOURCE CODE: UR/0030/66/000/002/0021/0029

JT/AT/RH/WH

AUTHOR: Millionshchikov, M. D. (Academician)

109

ORG: none

TITLE: Basic trends in technical progress related to Soviet achievements in the sciences

SOURCE: AN SSSR. Vestnik, no. 2, 1966, 21-29

TOPIC TAGS: economics, catalysis, nuclear physics, cosmic rays, plasma, chemical kinetics, heredity, direct energy conversion, cybernetics, automation, quantum electronics, single crystal, heat resistance material, polymer chemistry, metalworking machinery

ABSTRACT: At the annual meeting of the Academy of Sciences SSSR, held on February 13—14, 1966, Academician M. D. Millionshchikov reported on the decision of the Plenum of the Central Committee concerning the new economic policy, enumerating the trends and outlining the directions along which the development of various branches of the national economy must be pursued.

Continued development of all basic trends in mathematics was stressed as the key for all progress in science and technology. According to the

L 26581-66

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author, the most important branches of science are those pertaining to the structure of matter (the physics of elementary particles)! nuclear physics, and the investigation of cosmic rays. The purpose of the latter is to establish the theory of elementary particles and the consecutive theory of atomic nuclei. These theories are based on the development of methods for accelerating charged particles and, most importantly, on new methods of investigation, such as the method of colliding beams.

Academician Millionshchikov also stresses the importance of the development of theoretical chemistry. Progress in this field depends upon successful utilization of the theory of chemical structure and reactivity of substances, and on developments in chemical kinetics.

The importance of future development of the theory of catalysis and the prospect of practical utilization of extreme conditions and plasma processes in chemistry is emphasized.

The increasing importance of biological investigations is stressed for the development of many branches of science and for practical applications.

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